

# Project Information

100

GEPS Risk Management

Project Information | Project Details | LD Rates | Schedule/Delay | Finance | EHS | Noise | Help

102

**Project Name:** Insert Data Here**ID#:** Insert Data Here**Buyer:** Insert Data Here**Intended Cycle:** Insert Data Here**LD Type:** Insert Data Here**Bid Price of GE's Scope (000's):** Insert Data Here**Estimated EPC Price (000's):** Insert Data Here**Contribution Margin for GE's Scope (%):** Insert Data Here**Power Plant Technology:** Insert Data Here**Project Technology Configuration:** Insert Data Here**Number of Units per Block:** Insert Data Here**Number of Project Blocks:** Insert Data Here**Country:** Insert Data Here**State/Province:** Insert Data Here**Country HZ:** Insert Data Here**GE Site Scope:** Insert Data Here**GE Equipment Scope:** Insert Data Here**Project Viability:** Insert Data Here**GE Competitive Rating:** Insert Data Here**Finance Structure:** Insert Data Here**Fuel Structure:** Insert Data Here**Primary Fuel:** Insert Data Here**Secondary Fuel:** Insert Data Here

Fig 1

# Project Details

200

## Select the type of "R" review

- ☐ R-2 To Bid This Project  
☐ Interim R-3 To Sign An MOU/LOI/TPA  
☐ Interim R-3 For Engineering Release  
☐ Interim R-3 For Manufacturing Release

- ☐ Interim R-3 To Receive Funds  
☐ Final R-3 Based On Fully Negotiated Contract  
☐ Interim R-3 For

- Buyer Finance Structure  
 Events That Trigger Delay LD's  
 GE Scope In Consortium

## Gas Turbine

- Combined Cycle Configuration  
 Cogeneration Configuration  
 Number Of Project Blocks  
 Gas Turbine Model  
 GT Generator Model  
 GT Generator Quantity

## Number of GT Units

- Block 1  
 Block 2  
 Block 3  
 Block 4  
 Block 5  
 Block 6

## Steam Turbine / Boiler

- Steam Turbine Model  
 Steam Turbine Quantity  
 ST LSB  
 ST Megawatt  
 ST Generator Model  
 Boiler/HRSG Type  
 Boiler/HRSG Quantity  
 BFPT Quantity (if any)  
 BFPT Capacity (if known)

## Other Equipment / Services That GE Will Supply In This Contract

- ☐ Interconnection Yard  
☐ IGCC Gasifier  
☐ Transformers  
☐ Power Island BOP Only  
☐ Partial Plant BOP  
☐ Entire Plant BOP  
☐ Pipeline  
☐ Glegg Scope  
☐ CMU  
☐ CSA  
☐ NUS  
☐ Other

## Is There A CC STG Capture Strategy?

- ☐ Yes ☐ No

## Will GE Provide An Installation, Centerline Erection Or Turnkey Proposal Later?

- ☐ Yes ☐ No

## Is There A CC Performance Wrap?

- ☐ Yes ☐ No

Fig 2

201

202

203

# Noise 1

302

## GEEPs Risk Management

Project Information | Project Details | LD Rates | Schedule Delay | Finance | EHS | Noise | Help

### General Information

Does The Selected Project Require A Noise Guarantee From GE Or Its Consortium Partner?

Select One Of The Following To Complete This Noise Risk Module

- ☒ The Customer Has Stated It Will Not Require A Noise Guarantee
- ☒ The Customer Has Issued A Detailed Technical Specification Which Does Not Refer To A Noise Guarantee
- ☒ The Customer Has Not Issued A Technical Specification And Has Not Stated That They Want A Noise Guarantee
- ☒ The Technical Materials Issued By The Customer Do Not Refer To A Noise Guarantee And The Customer Has Not Stated They Want A Noise Guarantee

Select The Type Of Noise Guarantee(s) That Applies

(Please Select Left Hand Column Or Chose Consortium Partner's Offer As A Risk Mitigation)

☐ Near Field ☐ Far Field

### Select The Location Of The Equipment Being Supplied By GE:

☐ Gas Turbine ☐ Indoors ☐ Outdoors  
☐ Steam Turbine ☐ Indoors ☐ Outdoors  
☐ HRSG ☐ Indoors ☐ Outdoors

### Options For GEEPE Built Units (including 6B, 6FA, 9E)

Does GE's Offer Include A Low Noise Package (80 dBA)?

Does GE's Offer Include A Second Silencer?

☒ Yes ☐ No  
☒ Yes ☐ No

### Near Field Guarantee

Define The Near Field Guaranteed dBA Level:

Where There Is A Near Field Guarantee With An Indoor Turbine & Generator, Who Is Providing The Building? ☐ dBA@3(m) / 1(m) ☐ GE/Sub ☐ Others ☐ N/A

Continue >>

Fig 3

# Noise 2

400

## Far Field Guarantee

Select The Sound Pressure Level Requested By The Customer

Select The Customer Required Far Field Distance

Does GE's Or Its Sub-Contractors Scope Of Supply Include An Exhaust Stack, Evaporative Cooling Tower, Air Cooled Condenser, Or HRSG?

Do The Proposal / Contract Guarantees References A Plot Plan Dwg Number, Date & Revision?

Does This Proposal / Contract Include More Than Turbine Generators, MSD, And TA's?

## Partner Status

Who Is Responsible For The Far Field Noise Guarantee?

Has The Partner's Noise Control Capability Been Evaluated?

Does The Consortium Partner's Noise Control Capability Meet GE Standards?

## Select Any Of The Following Types Of Guarantees Requested By The Customer:

☐ Guarantees Based On Start-Up And/Or Transient Noise And NOT On Base/Peak Load Operation

☐ Guarantees Based On Maximum Sound Pressure Levels And NOT Average Sound Pressure Levels

☐ Guarantees Based On Octave Band Sound Pressure Levels OR ISO/MR Noise Curves And NOT Single dBA Value

☐ Guarantees Based On Individual Equipment Or Components (eg Inlet, Exhaust)

## Special Customer Requirements

<< Previous

Run Noise Inputs

Continue >>

Project:

Unknown dBA

☐ Unknown ☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ GE ☐ Partner

☐ Yes ☐ No

☐ Yes ☐ No

1.84

## Noise 3

500



### Noise Risk Assessment

GE's Partner Is Responsible For The Far Field Guarantee

GE Is Responsible For The Near Field Noise Contribution Of Its Scope To The Far Field Guarantee

#### HIGH Risk Drivers:

Guarantee Is Based On Maximum Sound Pressure Levels And NOT On Average Sound Pressure Levels (NR#1)

Guarantee Is Based On Octave Band Sound Pressure Levels Or Noise Curves And NOT On A Single dBA Value (NR#2)

Guarantee Is Based On Start-Up And/Or Transient Noise And NOT On Base/Peak Load Operation (NR#3)

Guarantees Are Based On Individual Equipment Or Components (e.g. Inlet, Exhaust) (NR#4)

Near Field Noise Guarantee Is Less Than 85 dBA At 3 Feet Or 1 Meter (NR#5)

Near Field Noise Guarantee Is For Indoor Units Where The Building Is Not In GE's Scope (NR#6)

The Far Field Guarantees Do Not Reference A Plot Plan Dwg Number, Date and Revision (NR#10)

Exhaust Stack, Cooling Tower, Air Cooled Condenser Or HSRG Is In GE Or Its Sub-Contractors Scope (NR#11)

Far Field Guarantee Is Required For An Equipment Only Proposal (NR#12)

Partner's Acoustic Design Capability Does Not Meet GE's Standards (NR#14)

#### Guarantee Conditions Which Are Within GEPS Quoting Limits:

Far Field Noise Guarantee Is Required At An Equivalent Of -3 dBA Or Greater At 400 Feet Or 122 Meters For An Indoor Facility.

[Noise Inputs](#)
[View Mitigations](#)

Fig 5

# Noise 4

600

**GEPS Risk Management** | **Project Details** | **LD Rates** | **Schedule/Policy** | **EHS** | **Noise** | **Help**

Project:

~~No Mitigations Are Necessary. Generate Your Report From The Report Wizard~~

☒ I immediately consult a noise control engineer for assistance

☒ Add additional noise attenuation in the Inlet or Exhaust Systems or other equipment as required

☒ Have Pegasus Scope And ECIT Comments Been Updated To Reflect The Guarantee Levels And These Mitigation Strategies?

☒ Yes ☒ No With Mitigations In Place, Is It Expected That The Noise Guarantee Will Be Achieved?

☒ Does The Output And Heat Rate Performance Guarantee Reflect The Actual Inlet & Exhaust Noise Attenuation Pressure Drops?

☒ Yes ☒ No Will GEPS Have An Availability Guarantee On This Project?

☒ Are The Mitigation Costs Included In The Profitability Summary?

☒ Yes ☒ No

## Noise Response

Noise Engineering Agrees With The Mitigation Strategies Used On This Project

☒ Yes ☒ No

Fig 4



# Risk Assessment System

800

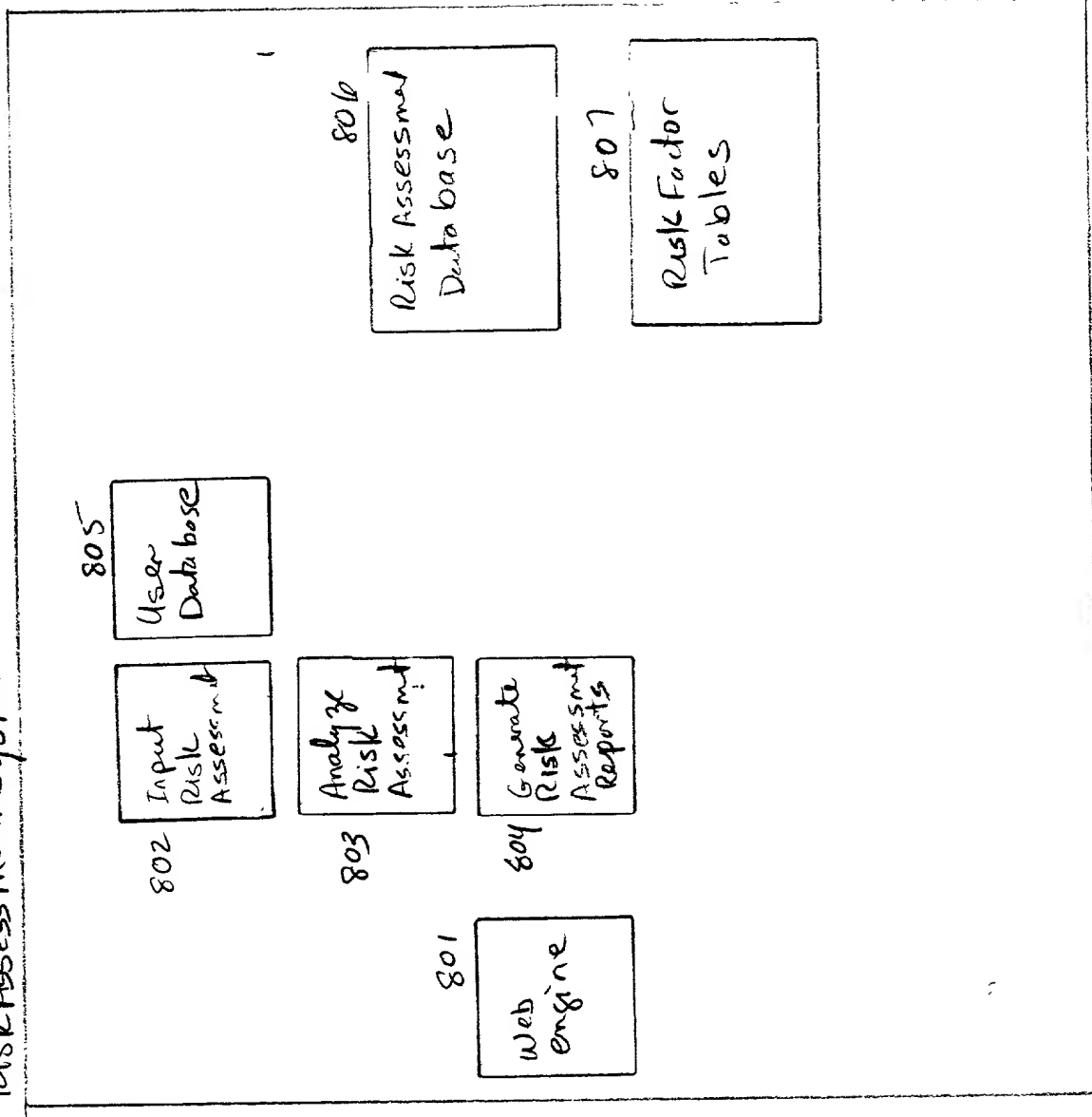
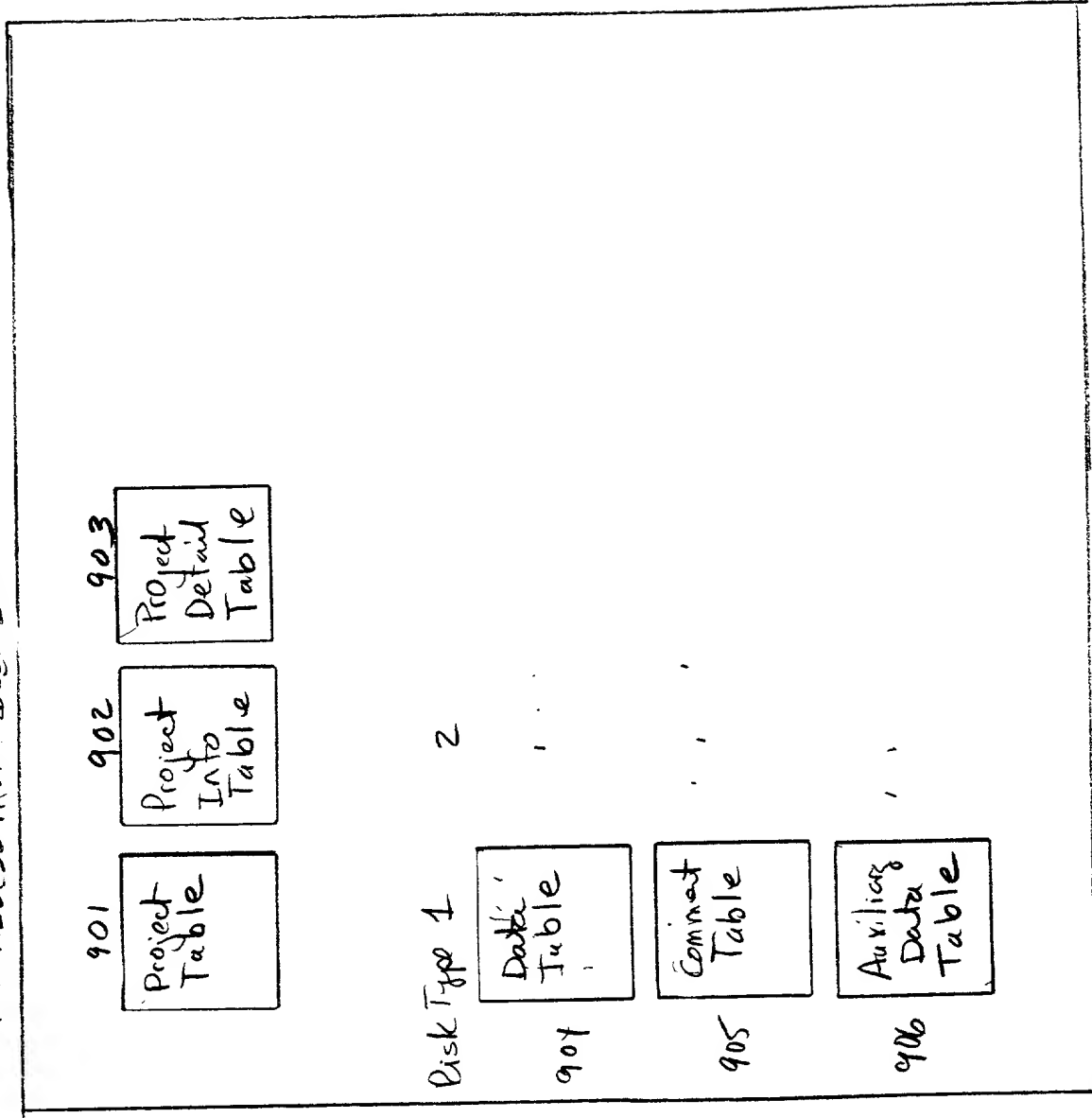


Fig 8



# Risk Assessment Database 900



Also may have  
Risk Results Table

Fig 9

Risk Factor Tables

1000

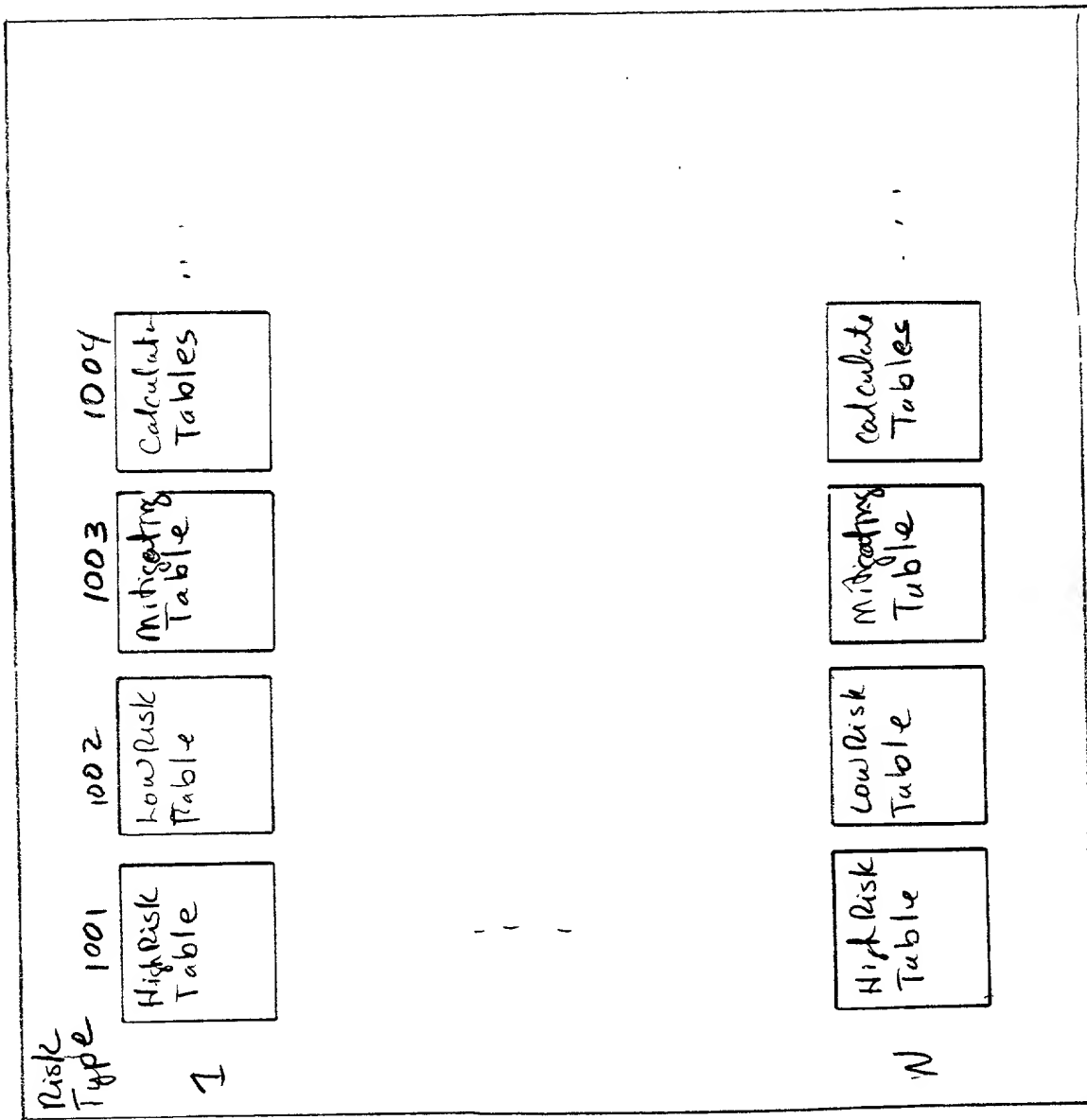


Fig 10

# Input Risk Assessment

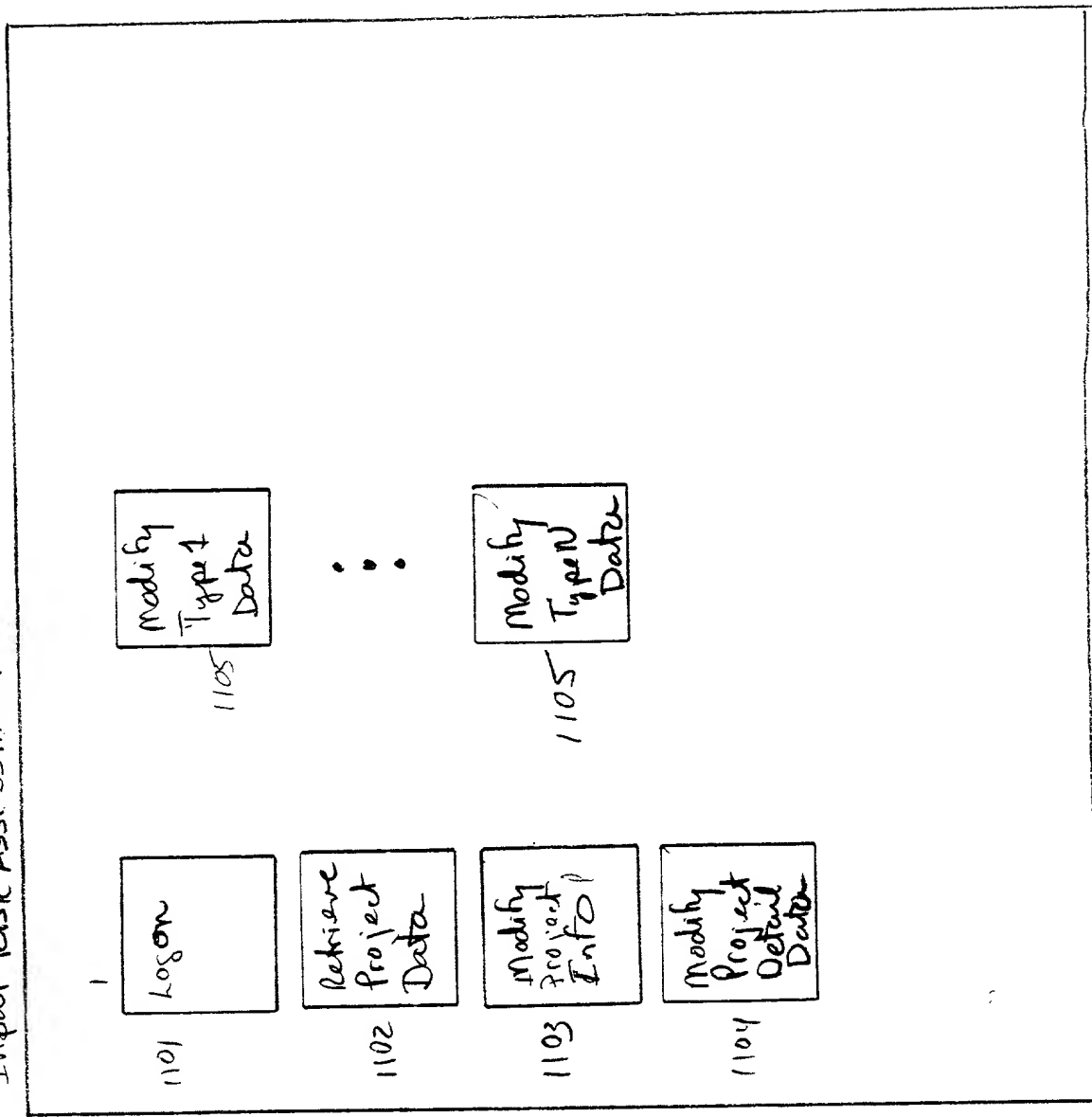


Fig 11

TOP SECRET 68400660

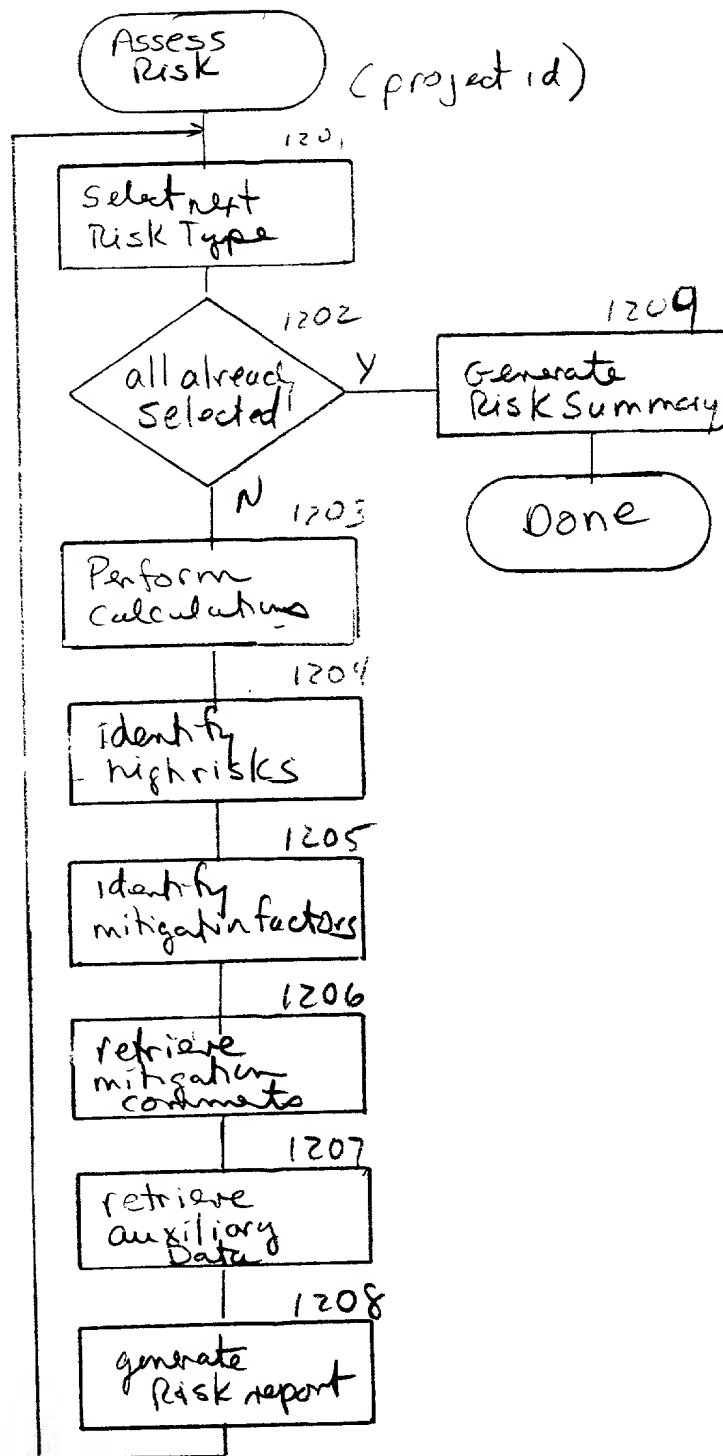


Fig 12

105020 62400660

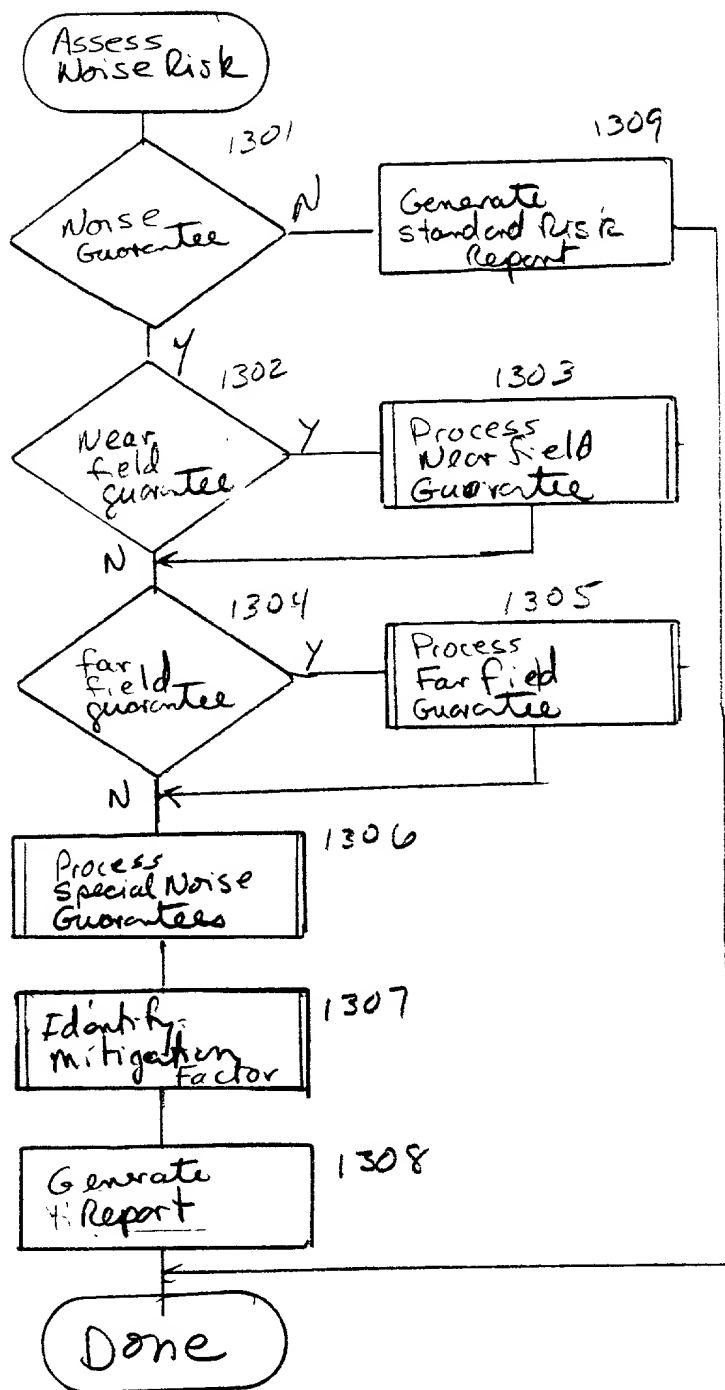
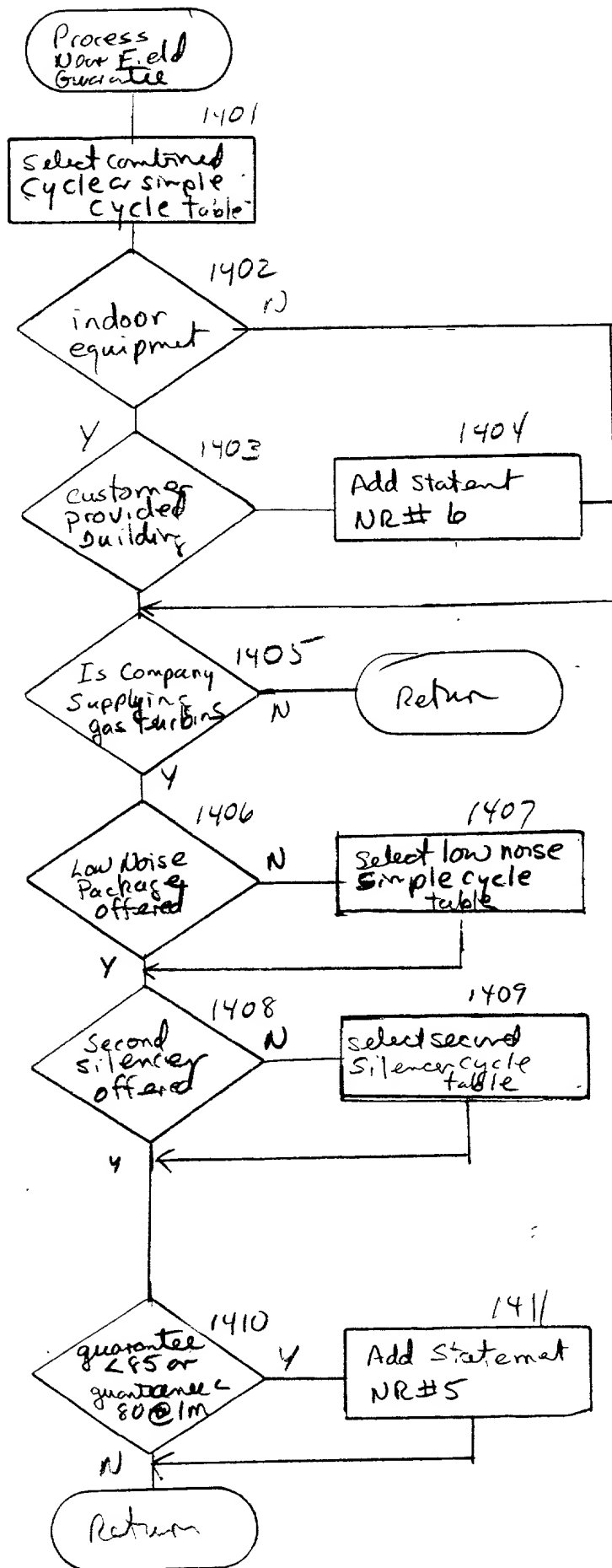


Fig 13

0900499.070501  
T05070 68400660

Fig 14



0000489.070504  
T050/20 68400660

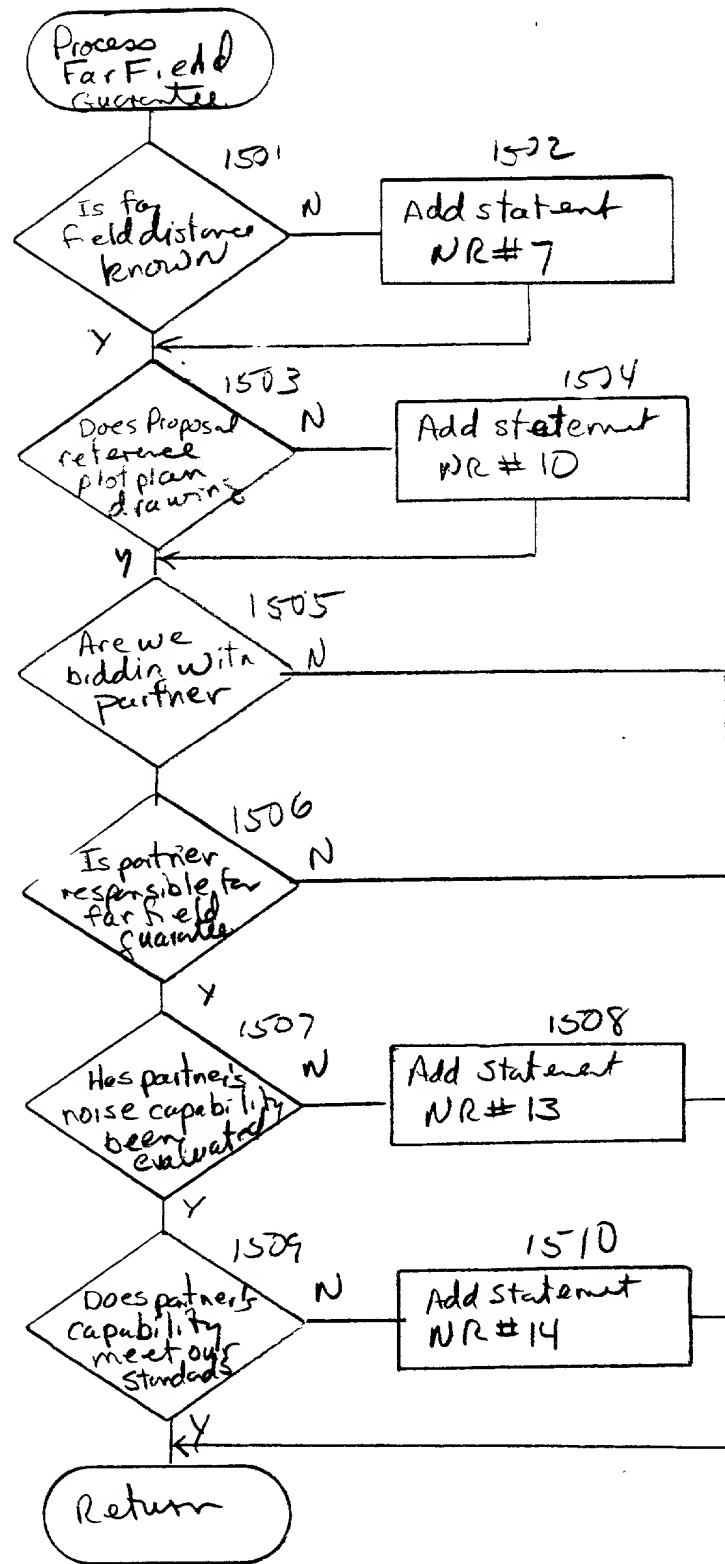
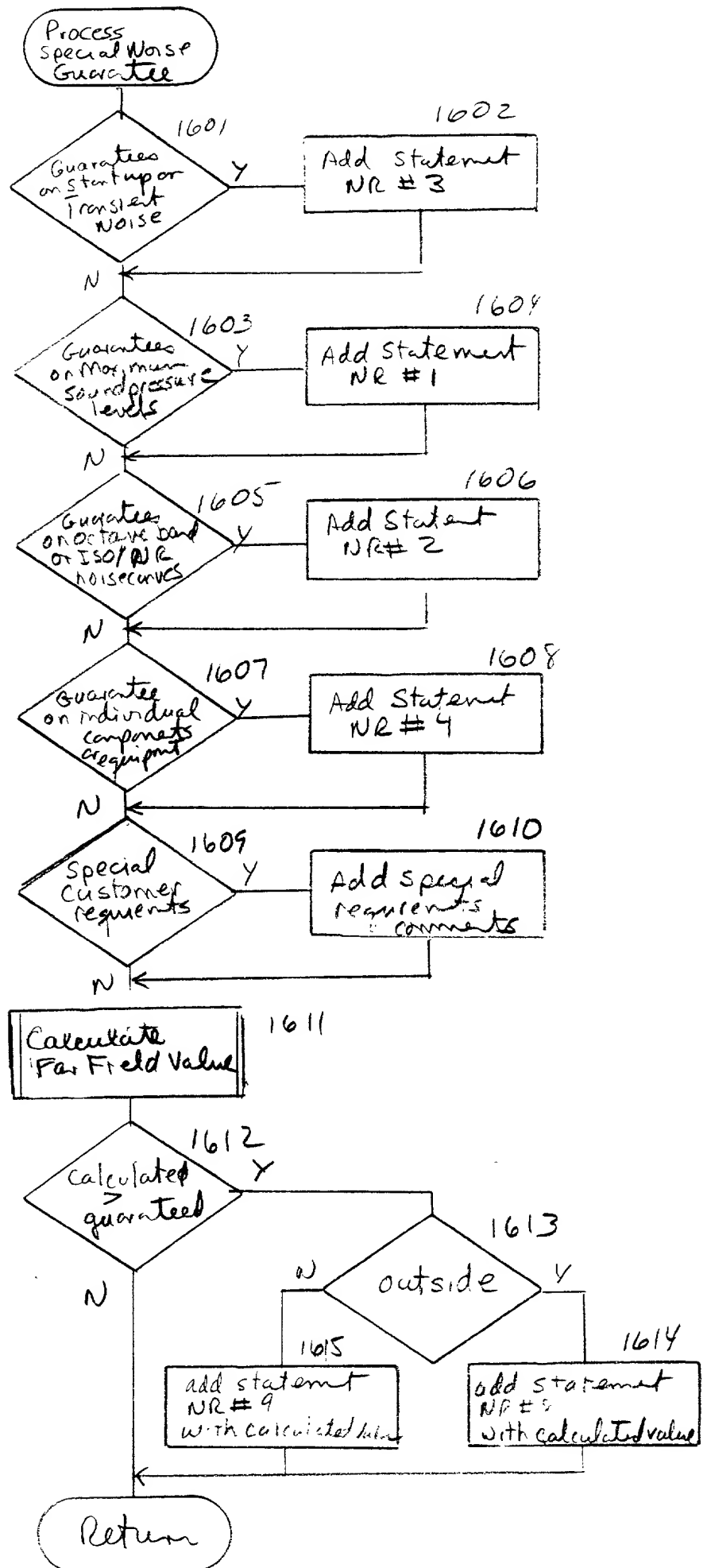


Fig 15

Fig 16





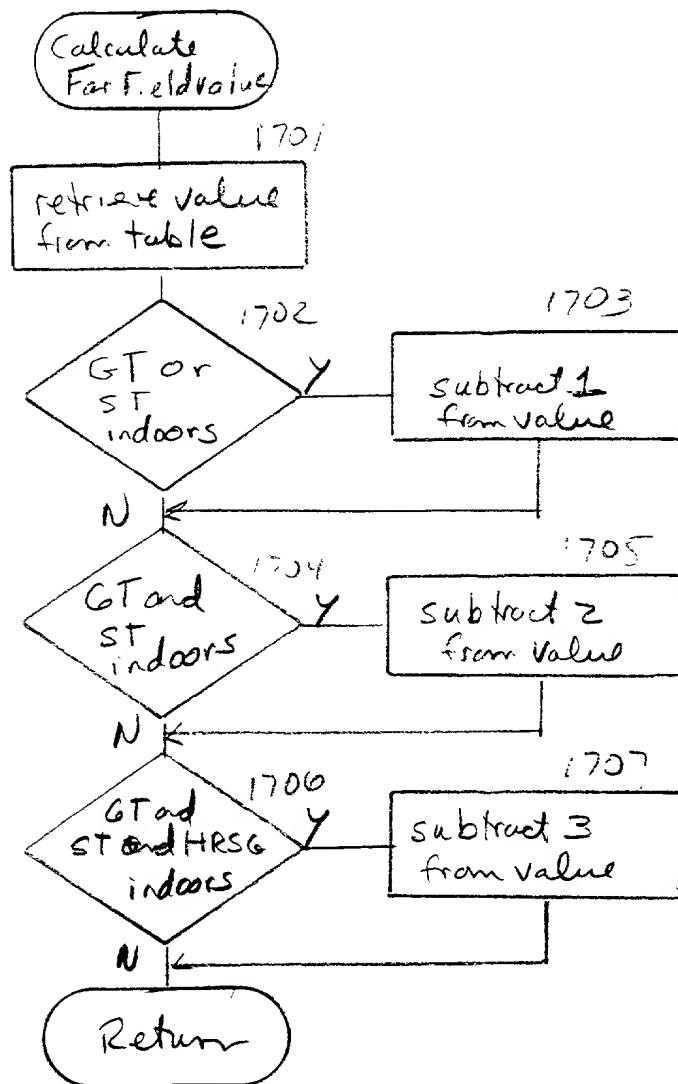


Fig 17

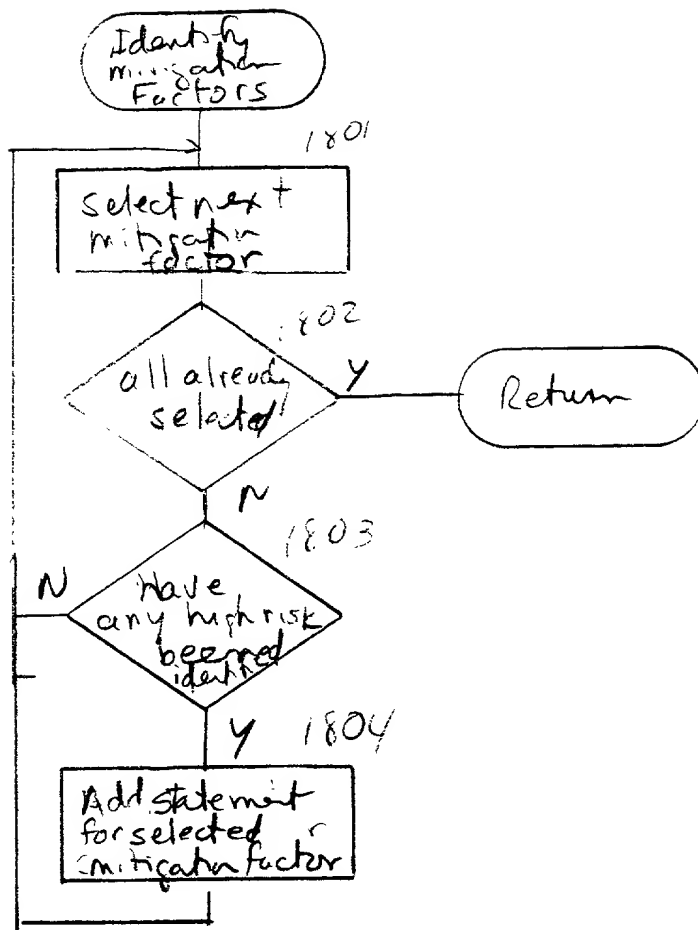


Fig 18